

(*****)

Partial Depth Removal of Existing Surfacing from Bridge Deck

Requirements for All Bridges Receiving Planing of Existing Surfacing

The Contractor shall use a rotary milling machine to remove the specified layer of HMA surfacing to the limits shown in the Plans, except as noted below for surfacing within 12 inches of bridge expansion joints. The rotary milling machine shall conform to Section 1-07.7 with a maximum operating weight of 35 tons.

The top layer of surfacing within 12 inches of the edge of an existing bridge expansion joint header or steel expansion joint assembly without a header, and surfacing inaccessible to the rotary milling machines, shall be removed by hand or by low impact hand tools as approved by the Engineer. Use of rotary milling machines to remove the top layer of surfacing in these areas will not be allowed. All damage to existing expansion joint headers and expansion joint components due to the Contractor's operations shall be repaired in accordance with Section 1-07.13.

If rotary milling operations contact existing bridge deck steel reinforcing bars at any time, the Contractor shall immediately cease planing operations and notify the Engineer. The Contractor shall reduce the planing depth for that bridge deck by 0.02 feet or as otherwise specified by the Engineer, and shall not resume rotary milling operations until completing the appropriate adjustments to the rotary milling machine and receiving the Engineer's approval to proceed.

All bridge deck concrete, bridge deck waterproofing membrane and bridge deck steel reinforcing bar damage due to the Contractor's surfacing removal operations shall be repaired by the Contractor in accordance with the **Repair of Damage to Bridge Decks due to Surfacing Removal Operations** subsection of these Special Provisions.

After planing, the Contractor shall remove all loose and unsound surfacing not firmly bonded to the bridge deck, as specified by the Engineer, using methods and equipment that does not damage the existing concrete bridge deck, as approved by the Engineer.

Additional Requirements for Bridges Classified as Restricted for Paving

After receiving the final grade paving profile and maximum planing depths from the Engineer, the Contractor shall use a rotary milling machine to remove the specified layer of HMA surfacing to the limits shown in the Plans, in accordance with the following:

1. The rotary milling machine shall have independent grade control to a tolerance of ± 0.02 feet of final grade, and transverse slope control conforming to the tolerance specified in this Section.
2. The rotary milling machine shall have cutting teeth that leave a uniform plane surface at all times. All teeth on the mill head shall be even and maintained during milling to a maximum differential tolerance of 3/8 inch between the shortest and longest tooth, as measured by a straight edge placed the full width of the rotary milling head.

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16

3. All rotary milling machine cutting tips shall remain sharp during milling operations. A tip is considered dull if it is worn close to the lower base of the cutting tip material or if less than 30 percent of the total length of the cutting tip material remains.
4. The depth of surfacing removal at each bridge, as measured to the bottom of the lowest milling groove generated by the rotary milling machine, shall not exceed the maximum planing depth specified for that bridge deck by the Engineer.

Prior to beginning bridge deck surfacing planing operations for each day, and whenever requested by the Engineer, the Contractor shall confirm to the satisfaction of the Engineer that the rotary head cutting teeth are within the specified tolerance for maximum differential tolerance and maximum planing depth.